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AUMA India Quarterly Newsletter (Apr ~ Jun' 2014)



## **AUMA India supplies actuators for 5 x 660 MW Tiroda Thermal Power project of Adani Power**

Adani Power Maharashtra Ltd, a unit of Adani Power Ltd, has constructed a 3,300 MW (5 X 660 MW) super-critical thermal power plant in Tiroda, Maharashtra. This project is Maharashtra's biggest power generation facility that will help India's leading industrialized state meet its electricity demand. All the units uses super-critical technology, driving efficiency in coal based power plant.

AUMA India has supplied a number of weather proof electric actuators for the circulating water system of Tiroda super-critical thermal power plant. AUMA India's scope of work consisted of supplying and commissioning assistance of electric actuators.



## **AUMA India products now with free 18 months additional warranty\***

From 1<sup>st</sup> May 2014 onwards, AUMA India products will come with free 18 months additional warranty (totaling warranty period of 3 years) against all manufacturing defects from the date of despatch. This warranty is applicable only for products manufactured by AUMA India and used within India. It will also include failures pertaining to infant mortality of electronic components.

\* For exclusions under this warranty, please refer "Terms and Conditions" of warranty available on our website [www.auma.co.in](http://www.auma.co.in) or consult our sales team.

## **AUMA India is selected for supplying electric actuators for various NTPC Projects**

AUMA India have been selected to supply electric actuators for various NTPC projects namely 2 x 660 MW NTPC Solapur thermal power plant and 2 x 660 MW NTPC Mauda thermal power plant. AUMA India is supplying these electric actuators through various contractors / equipment manufacturers.

These NTPC projects would be using super-critical technologies for the projects to ensure reduction in coal consumption and reduction in CO2 emission.

The 2 x 660 MW Solapur thermal power plant at Solapur would supply power to Maharashtra, Madhya Pradesh, Chattisgarh, Daman & Diu and Dadar & Nagar Havelli, whereas 2 x 660 MW Mauda stage II thermal power plant would supply power to western regions.

AUMA India has supplied similar solutions for various NTPC projects in the past.

## **AUMA India bags an order for Nuclear actuators for Kakrapar Atomic Power Station (KAPS)**

AUMA India has been awarded an order of nuclear actuators for Kakrapar Atomic Power Station (KAPS) - a nuclear power plant of Nuclear Power Corporation of India (NPCIL). The plant is located near Surat and already have KAPS - I & II unit working in place. NPCIL has started constructing KAPS 3 & 4 unit in phase II with the reactor capacity of 700 Mwe each.



AUMA India actuator for Nuclear Application





## AUMA actuators at India's first 4000 MW UMPP private power project near Mundra Port

AUMA is proud to be a part of one of the first 4000 MW UMPP private power project of CGPL near Mundra Port, Gujarat. AUMA has supplied a number of electric actuators for the automation of water treatment package and water circulating system in this plant. Actuators supplied for this project are integral starter weather proof actuators. These actuators have been supplied through various valve manufacturers / equipment manufacturers.

This 4000 MW (5 x 800 MW) UMPP is India's most energy-efficient coal-based thermal power plant using super-critical technology. This project is expected to benefit close to 16 million domestic consumers apart from supplying cost competitive power to industry and agriculture. The project will supply power to five states namely Gujarat, Rajasthan and Maharashtra in Western India and to Haryana and Punjab in Northern India, which are currently facing shortage of electricity.

## AUMA India supplies actuators for RNS irrigation project

AUMA India has supplied a number of weather proof electric actuators and large size worm gearboxes for automating butterfly valves for RNS Irrigation project of RNS Infrastructure.

The weather proof electric actuators are supplied with wall-mountable controls for easy operation and maintenance.



AUMA India actuator with Wall Bracket Arrangement

## GFC AntriebsSysteme GmbH now present in India

GFC AntriebsSysteme GmbH is a 100% subsidiary of AUMA Riester GmbH & Co. KG, with headquarters in Germany. Recently, as a strategic decision to serve the Indian market, it was decided to set up a manufacturing facility including a design office in Coimbatore, Tamil Nadu, to design and manufacture GFC products in India. Initially, GFC India will work as a division of AUMA India.

GFC is a well-known brand name in Europe and has expertise in manufacturing gearboxes for special applications like Passenger transportation (Escalators), Logistics (Container spreader), Renewable (Concentrated Solar Power), Construction Machineries, offshore etc. The gearbox range of GFC consists of worm gearboxes, helical worm gearboxes, worm helical gearboxes, slewing gears, double worm gearboxes and other gear types.

For any enquiries, contact Mr.V.C.S.Velumani directly at [velumani.subrmani@gfc-drives.com](mailto:velumani.subrmani@gfc-drives.com) or any of our sales representatives at AUMA India.

## Safety Day celebration @ AUMA India

4th March is celebrated as a National Safety Day in India. AUMA India being a safety conscious company celebrated National Safety Day by conducting Safety Quiz for the employees. For understanding and creating a preventive culture and scientific mind set, AUMA India regularly conducts safety training programmes for its employees.



Training on fire fighting and first aid



Winners of Safety Quiz receiving award on National Safety Day



## Enclosure Standards of IP 67 & IP 68

It was common in the past to specify enclosure standard for Electric Actuators and Valve Gearboxes by Customer / Consultants as IP 67. This was an improvement to the earlier era, where specified enclosure standards were less than IP 67 standard. Now it is becoming increasingly common for Customers / Consultants to specify the enclosure standards for these products as IP 68.

This calls for an understanding of the standard, technical parameters and its clauses. The handling and storage of the products will also have a bearing on maintaining the enclosure criteria if not addressed in a proper manner.

Enclosure (IP Code) provided as per International standards IEC60529 (latest version) for degrees of protection defines the parameters for conforming to IP 67 & IP 68 standards.

The 1st digit '6' stands for the dust tight enclosure "No ingress of dust" and clause 13.4, 13.6 elaborates the test conditions.

The 2nd digit '7' states the enclosure is protected against the effects of temporary immersion in water under test conditions of pressure and time as enunciated in the standard when the Actuators or Gearboxes are temporarily immersed in water. Ingression of water in harmful quantity should not be possible. The clause 14.2.7 elaborates the test conditions.

Second characteristics numeral IP 67 / IP 68	Test Method	Test time	Test reference clause
7	Immersion tank Water – level on enclosure : 0.15 m above top 1 m above bottom	30 min	14.2.7 of IEC60529
8	Immersion tank Water – level / by agreement duration	-	By agreement IEC60529

The second digit '8' states the enclosure is protected against the effects of continuous immersion in water. When the enclosure is immersed in water under conditions as declared by the manufacturer as the product standard for IP 68 or as per mutual agreement between the manufacturer and user, there shall not be ingress of water causing harmful effects. The clause 14.2.8 elaborates the basis of the requirements. The conditions of pressure and immersion time for IP 68 shall be greater than criteria specified for IP 67 enclosure standard.

The specification in the market does not define the criteria for IP 68 enclosure, but just a mere mention of enclosure requirement as IP 68 implies that the ownership is either on the manufacturer to declare the product standard for enclosure IP 68 or the user specifies his requirements of pressure and duration of immersion. Then only it will have a more meaning for the required application.

Auma India Electric Actuators and Gearboxes are tested at 3 meters water head to ensure the enclosure standards as declared by Auma India. Auma India has special pressurizing test equipment installed in the Electric Actuator production line for this purpose to check it routinely.

Further it's extremely critical that once the product is despatched to site it requires proper handling and storage. It is a common practice by Auma India to provide cable entries plugged by metallic plug with 'O' rings. At site, we find this is removed, 'O' rings are missing, covers are not fixed properly and still product is expected to conform to the requirements which is not possible. Having understood the stringent conditions for the enclosures as described above one has to ensure lot of care in manufacturing and thereafter in handling and storage till proper erection and commissioning of the products at site.

Author : MN Balachandra, VP - Marketing, AUMA India



## Customer Training Programme

A 3-day customer training programme was organised by AUMA India in its premises during 9th - 11th January 2014, which was attended by delegates from various end-users and valve manufacturers. The training programme was aimed at imparting theoretical know-how along with the detailed demonstration of our products.

## Upcoming customer training programmes

Training Cycle Number	Training Start Date	Training End Date
01/2014 – 2015	24-04-2014	26-04-2014
02/2014 – 2015	10-07-2014	12-07-2014
03/2014 – 2015	27-10-2014	31-10-2014
04/2014 – 2015	08-01-2015	10-01-2015

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OR visit

[www.auma.co.in/service/customertraining](http://www.auma.co.in/service/customertraining)

Download and fill the customer training enrollment form and send it to us.

## AUMA India provides helping hand to Narayanapura Government Primary School

AUMA India is a firm believer of the concept of "Corporate Social Responsibility" and as a CSR conscious company always think of working towards betterment of the society and environment.

Recently, AUMA India has donated Public Address System to Narayanapura Government Primary School under its CSR activity. In the past, AUMA India have been associated with this school by donating school stationary, uniforms and furniture.

AUMA India has also offered help for the landscaping work in the Narayanapura Government School premises and will be providing maintenance support for the same.



An AUMA India team donating Public Address System to Narayanapura Government Primary School



Landscaping work done by AUMA India in Narayanapura Government Primary School

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